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Ms. Doris Lee-Betuel
Guam Project Officer
Office of Pacific Island and
Native American Programs
U.S. Environmental Protection
Agency, Region IX
215 Fremont Street
San Francisco, California 94105

Dear Doris:

Enclosed are the minutes for the July 26, 1988 public meeting on the Ordot
Landfill Remedial Action Plan.

Should you have any questions, please do not hesitate to contact me.

Sincerely yours,

JAMES L. CANTO
Head, Air and Land
Programs Division

Enclosure

cc: Chrono
GEPA File
Jim's rdg. file

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GUAM ENVIRONMENTAL PROTECTION AGENCY

AHENSIAN PRUTEKSION LINA'LA GUAHAN

POST OFFICE BOX 2999 AGANA, GUAM 96910 TELEPHONE: 646-8863/64/65

PUBLIC MEETING

Ordot Landfill Remedial Action Plan

July 26, 1988

5:00 p.m.

Guam E.P.A Conference Room, Harmon Plaza, Harmon

U.S.E.P.A. OFFICIALS PRESENT:

Norman Lovelace, Chief - Office
of Pacific Island and Native
American Programs
Rick Sugarek

GUAM E.P.A. STAFF PRESENT:

Charles Crisostomo, Administrator
James Canto, Air/Land Administrator
Jose Techaira, Program Coordinator IV

GUESTS:

David Aquiningoc, Department of Public Works
Tony Quinata, Department of Public Works
Victor T. Camacho, Department of Public Works
Audie Cheng, Goodwind Development Corporation
Edita L. Sardea, Guam E.P.A. Board Member
Rodolfo Dilanco, Guam E.P.A. Board Member

The Administrator of the Guam Environmental Protection Agency opened the Public Meeting at 5:00 p.m. In his opening remarks, Mr. Crisostomo stated that the Public Meeting was being held to receive public input on the delisting of Ordot Landfill. A press release was sent to the Commissioner of Ordot/Chalan Pago, Senator San Agustin - Committee on Health and was published in the Pacific Daily News on July 14th. He introduced Mr. Norman Lovelace, Chief - Office of Pacific Island and Native American Programs, Region IX, who would conduct the Meeting.

Mr. Lovelace continued by introducing Mr. Rick Sugarek, who is from the Superfund Group. An overview of the proposed delisting was presented to the general public.

The U.S.E.P.A. has proposed to delist Ordot Landfill. At this point in time, the proposal is still in the decision stage. With the public comment period closing August 12th the public was encouraged to submit their written comments before this date to the Administrator of Guam E.P.A. The proposal is to remove the Ordot Landfill from the Superfund National Priority List. Superfund was established in 1980 with the purpose to create a pool of money which can be

"ALL LIVING THINGS OF THE EARTH ARE ONE"

used to clean-up hazardous and toxic waste sites across the Nation. The Federal Government would clean-up these sites with cost recovered from responsible parties to reimburse the Fund. Each state and territory were given the opportunity, early in the Program, to place a site on the National Priority List. Guam chose Ordot Landfill. This site was listed, in 1983, because of its potential to contain hazardous and toxic wastes. To date it is not known exactly what has been disposed of at the Landfill site and its impact on the environment. A decision was made to place Ordot Landfill on the List and conduct further investigation to determine whether a problem existed.

Since 1983, U.S.E.P.A. has conducted several studies of Ordot. Based upon their studies, the Landfill was decided to be delisted as a Superfund site. There are, however, several stipulations in doing so. U.S.E.P.A. has found, through their studies, several corrective measures which can be implemented. These measures will solve the majority of the Landfill problem areas. Also, further monitoring will be conducted before a final delisting decision is made. In order for the delisting to become totally effective, the measures identified will be implemented, monitored for effectiveness and further characterization will be done on Ordot Landfill to confirm whether or not there are no further problems at the site. When corrective measures are implemented, with U.S.E.P.A.'s approval, the final delisting will be made. It was noted, however, that once the Landfill is delisted it will not restrict the area from being placed back on the Priority List at a future date if environmental hazards are established. Corrective measures could be made under a Superfund initiative at that time. Mr. Lovelace stated that Ordot Landfill does indeed have problem areas which need to be addressed. However, it was felt though that these areas could be addressed through other means rather than Superfund. Further explanation was then given by Mr. Rick Sugarek regarding some of these alternate measures.

Mr. Sugarek noted that the Superfund concern at the Landfill is possible contamination of the sole source aquifer. It is not known what hazardous wastes have been disposed of at the Landfill and its effect on the aquifer. There is also a leachate flow which enters the Lonfit River and eventually the Pago River and Pago Bay. These two concerns were the primary areas for investigation. A sampling program was initiated to examine the groundwater, surface water and the leachate constituents. Conclusion of these samplings was based on the initial site characterization conducted on these areas. A limited amount of data was compiled from this characterization. Further monitoring was then recommended to confirm the findings.

Tests done to determine the Landfill impact on the Lonfit River were conducted. A site upstream from the Landfill and one site below were used. No impact on the Lonfit River was found from testing of the leachate. In cooperation with W.E.R.I., monitoring wells were used. One well upgradient from the Landfill and two downgradient wells were tested to characterize the groundwater in the area. Wells used for domestic water consumption, A-11 and A-12, for Ordot were used as comparison for water quality. Leachate flows were sampled at three sites on the Lonfit River. On the eastern side of the Landfill, a leachate flow of five to ten (5-10) gallons a minute with a five to six (5-6) gallon estimate was noted. A pool of leachate was found to have the worse quality of water.

Air quality tests were also done on the Landfill to detect hazardous contaminants. Organics and methane were tested. Methane was found in small quantities, which is to be expected in such an area. No organics were noted.

A geologist conducted subsurface testing of the Landfill to identify if the Landfill was hydrologically isolated from the groundwater aquifer. Conclusions indicate that the area is situated on a clay base, which will inhibit flow to groundwater sources. The geological reconnaissance concluded that the Landfill is isolated from the groundwater aquifer with a surface flow through the area. The solution is to minimize the infiltration of run-on water into the Landfill, which would in turn, significantly reduce leachate discharges.

The recommendation is to cover the inactive portion of the Landfill to make it impermeable to rainfall. A run-on water diversion system would also be constructed. Additional monitoring is proposed to confirm that the recommended measures are the desired solution. The monitoring would include further groundwater and river sampling.

No further action under Superfund is proposed at this time. It is proposed, however, that delisting would not occur until corrective measures are implemented and monitored.

Mr. James Canto, Guam E.P.A.'s Air and Land Administrator, presented to the public Guam E.P.A.'s role concerning the Landfill. This role included data gathering, logistical support to U.S.E.P.A. for remedial investigation, distribution of public information and a depository for public comments.

Since 1980 water samples from the Lonfit River have been collected and analyzed for hazardous constituents. These analytical results provided a partial basis for Guam E.P.A.'s determination that potential threats to human health and the environment existed at Ordot Landfill. Consequently, Ordot Landfill was listed on the Superfund Priority List in 1983. In 1982, a preliminary remedial investigation by U.S.E.P.A.'s contractors was completed. Guam E.P.A. assisted with providing information gathered to that point in time. A second remedial investigation in 1987 was conducted. Water samples and air monitoring activities were conducted.

Guam E.P.A. has also commented on remedial investigation plans which U.S.E.P.A. has promulgated. Notices have been published in the newspaper for public comment which is in turn submitted to U.S.E.P.A. for consideration and any adjustment in these plans.

Potential responsible party searches have been conducted by Guam E.P.A. and E.P.A.'s contractors to identify generators of any toxic wastes which may have been disposed of at Ordot Landfill. Further sampling of monitoring wells, production wells and the Lonfit River will be necessary to determine if corrections will alleviate the problems at the Landfill. These activities will be conducted by Guam E.P.A.

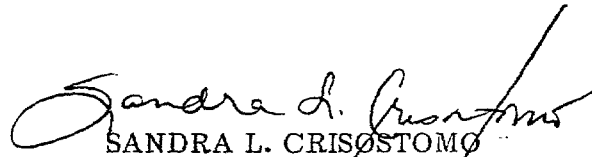
Mr. Tony Quinata, Department of Public Works, posed the question concerning the Administrative Order issued to the Department of Public Works for the leachate discharge from Ordot Landfill. It was asked if the Department of Public Works should apply for a permit for the leachate discharge from the Landfill until corrective measures can be made. Mr. Lovelace's response was to not apply for a permit but to continue with meeting the Administrative Order and develop a schedule to come into compliance with the Order. The Order will be closely examined within the next several months and will have more specific conditions applied.

This schedule will be more rigidly monitored. Funding sources for corrections will be taken into consideration.

It was noted that by mid-September a decision should be made.

The Public Meeting was adjourned at 6:00 p.m.

Attested:


SANDRA L. CRISOSTOMO
Board Secretary